INFORMATION LETTER
International Scientific Conference
ADVANCED MATERIALS, NANOTECHNOLOGIES AND SOLAR MATERIALS SCIENCE FOR SUSTAINABLE DEVELOPMENT
October 29-30, 2026

Dear Colleagues,

The Institute of Materials Science of the Academy of Sciences of the Republic of Uzbekistan invites scientists, researchers, university faculty members, representatives of industrial enterprises, innovative companies, young researchers, doctoral students, and students to participate in the International Scientific Conference **"Advanced Materials, Nanotechnologies and Solar Materials Science for Sustainable Development"**, which will be held on October 29-30, 2026, in Tashkent and at the Big Solar Furnace facility (Parkent District, Republic of Uzbekistan).

The main objective of the conference is to discuss recent achievements and future prospects in materials science, nanotechnology, solar energy, and solar materials science, to promote international scientific and technological cooperation, and to facilitate the implementation of innovative solutions for sustainable development.

Main Scientific Topics

I. Concentrated Solar Energy and Solar Furnaces for Synthesis and Processing of Advanced Materials (Azimov Readings)

- Materials for solar energy applications;
- Materials research under concentrated solar radiation;
- Solar-thermal technologies for the synthesis of novel materials;
- Melting, synthesis, and modification of materials using concentrated solar energy;
- Low-carbon and resource-efficient technologies.

This topic is dedicated to the scientific legacy of Academician Sadyk Azimov and research on materials under concentrated solar radiation. In the context of the global transition toward a low-carbon economy, technologies for material synthesis and processing using renewable energy sources are becoming increasingly important.

II. Advanced Functional Materials

- Materials for energy and electronics;
- High-entropy alloys and composite materials;
- Synthesis and characterization of nanostructured materials;
- Two-dimensional materials, nanocomposites, and functional coatings.

The development of new materials is one of the key drivers of modern technological progress. Particular attention is currently focused on high-entropy alloys, two-dimensional materials, nanocomposites, and functional coatings with unique properties that enable the creation of next-generation materials for energy, electronics, transportation, aerospace engineering, and other high-tech industries.

III. Materials for Sustainable Energy and Hydrogen Technologies

- Materials for hydrogen production, storage, and transportation;
- Electrocatalysts and fuel cells;
- Materials for next-generation batteries;
- Industrial decarbonization technologies.

One of the major global challenges of the 21st century is the transition to environmentally sustainable energy systems and the achievement of carbon neutrality. Addressing these challenges requires the development of advanced materials for energy generation, storage, and conversion. The advancement of hydrogen energy technologies depends on efficient electrocatalysts, membranes, hydrogen storage materials, fuel cells, and next-generation battery systems.

Conference Languages

- Uzbek;
- English;
- Russian.

Participation Formats

- Plenary presentation;
- Oral presentation;
- Poster presentation.

Publication of Proceedings

Conference papers will be published in the electronic conference proceedings. Selected papers recommended by the Program Committee will be considered for publication in scientific journals indexed in international databases.

Important Dates

- Submission of abstracts and registration forms: until October 5, 2026;
- Notification of acceptance: until October 15, 2026;
- Publication of the conference program: until October 25, 2026;
- Conference dates: October 29-30, 2026.

Venue

Academy of Sciences of the Republic of Uzbekistan, Tashkent, Republic of Uzbekistan

Unique Scientific Facility “Big Solar Furnace” of the Institute of Materials Science Parkent District, Tashkent Region, Republic of Uzbekistan

Organizers

- Academy of Sciences of the Republic of Uzbekistan;
- Institute of Materials Science of the Academy of Sciences of the Republic of Uzbekistan.

Organizing Committee Contacts

Institute of Materials Science Academy of Sciences of the Republic of Uzbekistan

E-mail: conference@imssolar.uz

Website: www.imssolar.uz

We look forward to welcoming you to the International Scientific Conference and hope for fruitful scientific cooperation!

CONFERENCE PARTICIPATION GUIDELINES

Registration fee:

• for participants from the Republic of Uzbekistan — UZS 300,000;

• for international participants — USD 100.

Information on the payment procedure and deadline will be provided to participants after confirmation of abstract acceptance.

SUBMISSION PROCEDURE

To participate in the Conference, the following materials must be submitted by October 5, 2026, to conference@imssolar.uz

1. an abstract of no more than 2 pages, prepared in accordance with the requirements set out in Appendix 1;

2. a completed Participant Registration Form according to Appendix 2.

All materials must be submitted electronically in Microsoft Word (.docx) format.

File names must include the surname and initials of the first author:

1. Akhmedov A.A._Abstract.docx
2. Akhmedov A.A._Registration_Form.docx

Participants from the Republic of Uzbekistan may use Russian or Uzbek file names.

The authors are responsible for the content of the submitted materials, the accuracy and reliability of the results, proper citation, the absence of plagiarism or unauthorized borrowing, and compliance with copyright requirements.

The Organizing Committee reserves the right to reject submissions that do not correspond to the scope of the Conference or fail to meet the established formatting requirements.

Submissions undergo a preliminary review by the Organizing Committee for compliance with the Conference scope and the established scientific and technical requirements.

Following the Conference, an electronic Proceedings volume will be prepared and made available on the official website of the Institute of Materials Science, www.imssolar.uz.

Each Conference participant will receive an electronic copy of the Proceedings and an electronic Certificate of Participation.

Appendix 1

ABSTRACT FORMATTING REQUIREMENTS

1. General Requirements

The abstract must not exceed 2 A4 pages, including figures, tables, and references.

Abstracts must be submitted in Microsoft Word (.docx) format.

Page format:

size — A4 (210 × 297 mm);

orientation — portrait;

top and bottom margins — 2.5 cm;

left and right margins — 2.2 cm;

pages must not be numbered.

2. Abstract Structure

The abstract should be structured as follows:

TITLE OF THE PAPER

Initials Surname[1], Initials Surname[2]

[1]Full name of institution/organization, city, country

[2]Full name of institution/organization, city, country

E-mail: e-mail address of the corresponding author

Abstract text.

Keywords: up to 10 words or phrases.

References

For multi-author submissions, the corresponding author should preferably be indicated with an asterisk (*).

3. Text Formatting

The main text must be formatted as follows:

font — Times New Roman;

font size — 12 pt;

line spacing — single (1.0);

alignment — justified;

first-line indent — 1.0 cm;

spacing before and after paragraphs — 0 pt.

The title of the paper must be centered and typed in bold uppercase letters.

Authors' names and initials must be centered. The institution/organization, city, and country must be provided on a separate line.

Automatic hyphenation should be disabled.

Hyphens (-), dashes (–), and quotation marks must be used consistently throughout the text.

4. Language of Submissions

Abstracts may be submitted in English, Russian, or Uzbek.

To enhance the international accessibility of the Conference materials, submission in English is recommended.

For abstracts prepared in Russian or Uzbek, the paper title, authors' names, affiliations, and keywords should also be provided in English.

5. Figures, Graphs, and Tables

Figures, photographs, graphs, schemes, and diagrams must be clear and suitable for electronic publication.

All figures and tables must:

- be placed immediately after their first mention in the text;
- be numbered consecutively;
- have informative captions;
- be referred to in the main text.

Example:

Fig. 1. Dependence of sample temperature on radiation flux density

Table 1. Main experimental parameters

Labels and text within figures must remain legible after scaling.

6. Equations and Notation

Equations must be prepared using the built-in Microsoft Word Equation Editor or a compatible equation editor.

All physical quantities should be expressed in International System of Units (SI) units.

Variables must be italicized, while units of measurement must be set in upright (roman) type.

7. Citations and References

References must be cited in the text in square brackets in the order of their first appearance: [1], [2], [3–5].

The reference list must be arranged in the order in which the sources are cited in the text.

For journal articles, the following information is recommended:

Author(s). Article title. Journal title. Year; volume(issue): pages. DOI.

Example:

1. Ivanov I.I., Kim B.S. Solar thermal synthesis of advanced ceramic materials./ Solar Energy. 2025; 280:112345. DOI: xx.xxxx/xxxxx.

For online sources, the name of the resource and the date accessed must be provided.

Authors are responsible for the accuracy of bibliographic information and the correctness of citations.

8. Research and Publication Ethics

Submitted materials must contain original results or a scientifically substantiated synthesis.

The following are not permitted:

- plagiarism and unauthorized use of materials;
- fabrication or falsification of scientific data;
- improper citation;
- infringement of third-party copyrights.

The use of artificial intelligence technologies in preparing a submission does not relieve authors of responsibility for the accuracy, originality, and scientific validity of the submitted materials.

Appendix 2

CONFERENCE PARTICIPANT REGISTRATION FORM

1. Full name:
2. Surname and given name in English (for participants from CIS countries):
3. Country:
4. Full name of institution/organization:
5. Position:
6. Academic degree / academic title (if applicable):
7. Telephone number (including international country code):
8. E-mail address:
9. Title of paper/presentation:
10. Mode of participation:

□ In person
□ Online

11. Type of presentation:

□ Plenary presentation
□ Oral presentation
□ Poster presentation

The final presentation format will be determined by the Organizing Committee in accordance with the Conference program.